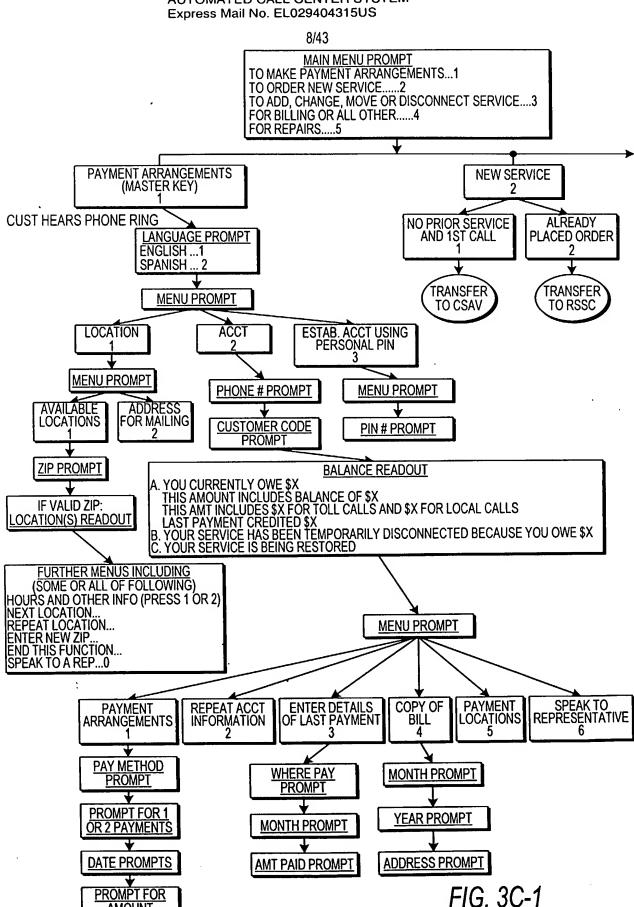


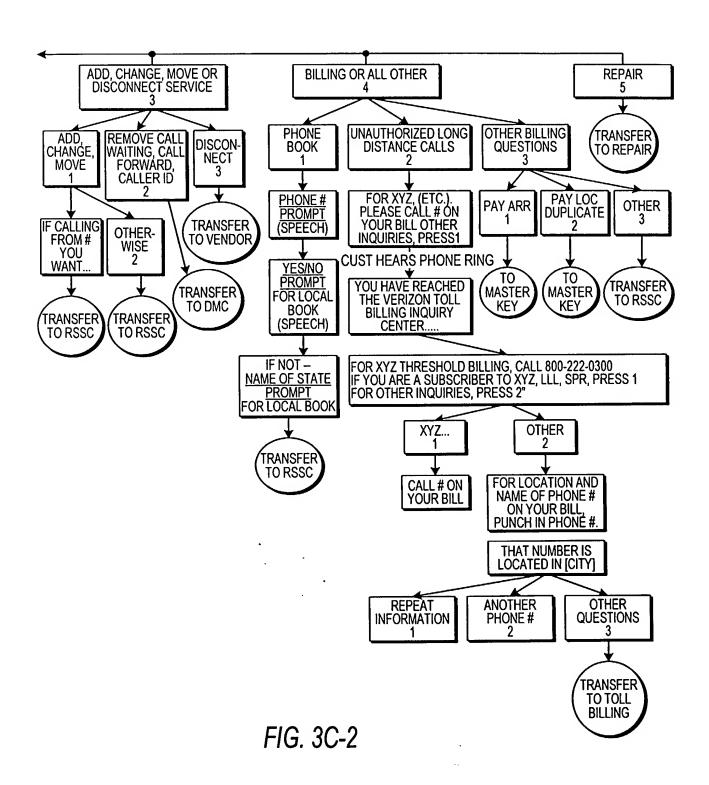
7/43

FIG. 3C-1 FIG. 3C-2

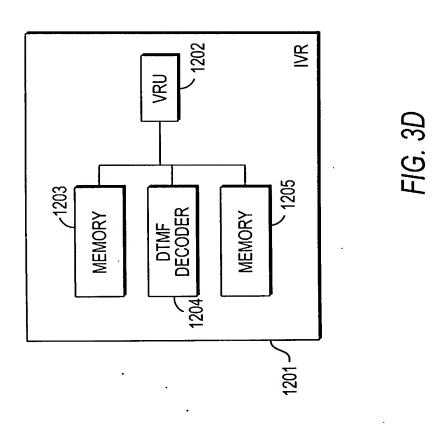
FIG. 3B



AMOUNT



01-4006; Patrick Peterson et al. INTERIOR INTERIOR INTERIOR EVENTS
THAT OCCUR WHEN INTERACTING WITH AN AUTOMATED CALL CENTER SYSTEM Express Mail No. EL029404315US



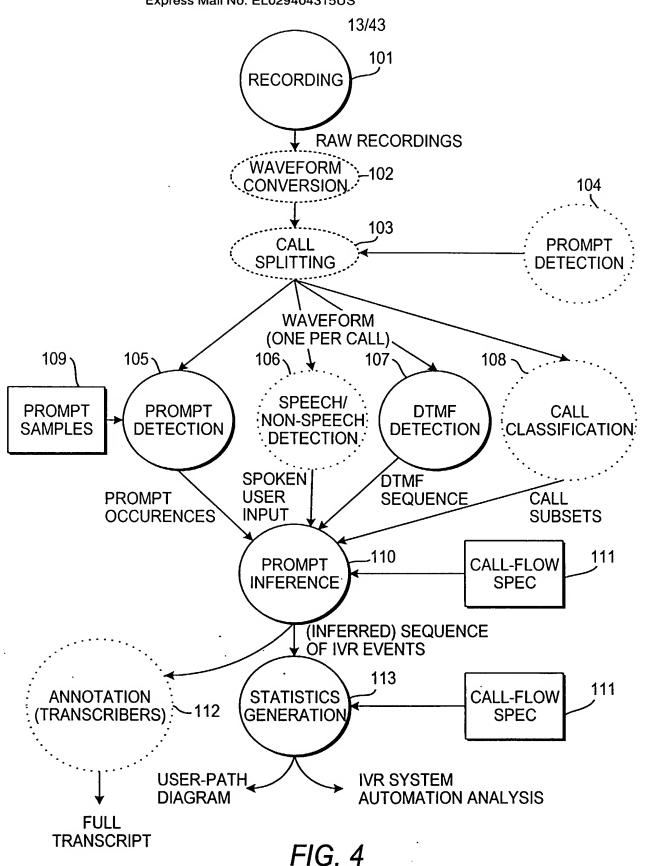
11/43

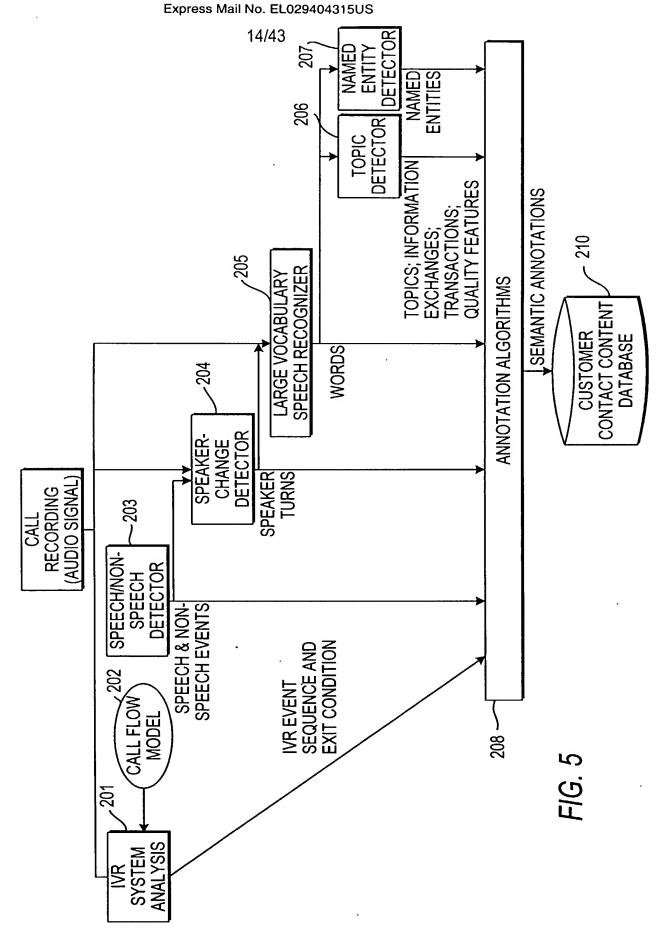
STATE	TIME	OUTCOME
CALL ARRIVAL	##:##:##	DATE; CALLER IDENTIFICATION
INITIAL MENU	##:##:##	TOUCH TONE SELECTION, E.G., 3
TELEPHONE NUMBER PROMPT	##:##:##	TOUCH TONE NUMBERS PRESSED, E.G., 617-555-1212
VALIDATE TELEPHONE NUMBER	##:##:##	INVALID NUMBER
TELEPHONE NUMBER RE-PROMPT	##:##:##	TOUCH TONE NUMBERS PRESSED
VALIDATE TELEPHONE NUMBER	##:##:##	VALID NUMBER
MENU 1	##:##:##	TOUCH TONE SELECTION
QUERY A	##:##:##	TOUCH TONE NUMBERS PRESSED
QUERY B	##:##:##	TOUCH TONE NUMBERS PRESSED
MENU 2	##:##:##	TOUCH TONE SELECTION
TRANSFER TO AGENT	##:##:##	TRANSFER QUEUE (CALLER ON HOLD)
IVR END	#:#:#	TRANSFER COMPLETED

FIG. 3E

	INIL		
212-123-4567	##,##	CALL ARRIVAL	DATE
212-123-4567	##'##	INITIAL MENU	TOUCH TONE SELECTION
212-123-4567	##'##	ACCOUNT NO. PROMPT	TOUCH TONE NUMBERS PRESSED
212-123-4567	##'##	VALIDATE NUMBER	INVALID
212-123-4567	· ##'##	ACCOUNT NO. RE-PROMPT	ACCOUNT NO. RE-PROMPT CALL TERMINATED BY CALLER
201-321-4567	## ,##	CALL ARRIVAL	DATE
201-321-4567	##,##	INITIAL MENU	TOUCH TONE SELECTION
201-321-4567	##'##	ACCOUNT NO. PROMPT	TOUCH TONE NUMBERS PRESSED
201-321-4567	##'##	VALIDATE NUMBER	VALID
201-321-4567	##'##	MENU 1	TOUCH TONE SELECTION
201-321-4567	##,##	TRANSFER TO AGENT	TRANSFER COMPLETED
617-987-6543	## ' ## '##	CALL ARRIVAL	DATE
617-987-6543	1 8 8	•••	
617-987-6543	##'##	ACCOUNT BALANCE	INFORMATION DELIVERED
617-987-6543	## ; ## ;	MENU 3	TOUCH TONE ELECTION
617-987-6543	## , ## ,	TRANSFER TO AGENT	TRANSFER QUEUE (CALLER ON HOLD)
617-987-6543	## ; ## ;	IVR END	CALL TERMINATED BY CALLER

FIG. 3F





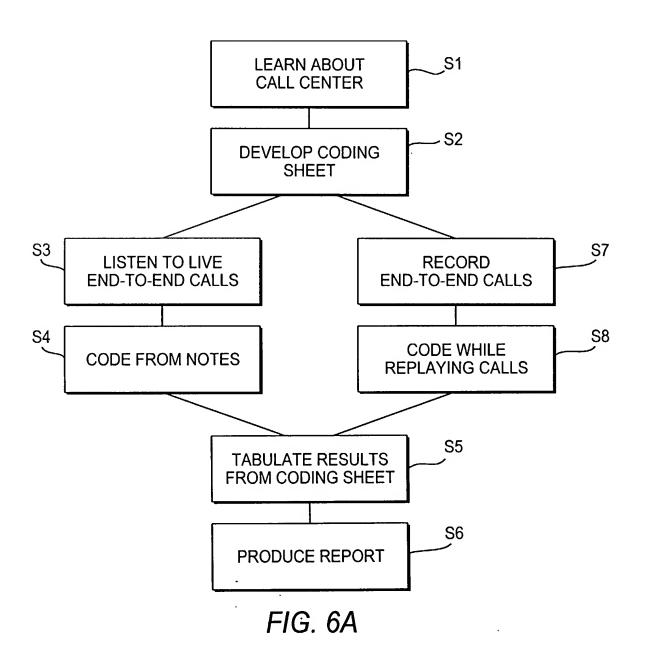


FIG. 6B

FIG. 6B-1
FIG. 6B-2
FIG. 6B-3
FIG. 6B-4

CALLIMBER	10	85	53	25	W-10	M-33	M-71	M-130	M-178	M-215
NSCRIBER			/JT	25	MJW	WLM	MJW	WCM		MJW
	12/14/1996	12/17/1996	12/19/1996	27-DEC	F0170070E0	2011001010	2001001002	2404004567	7974994567	7404004567
PHONE #:		/9058571717	2011234567 M	914123436/ E	9/3123436/ M	700HC7101R	7.52.1234307 3.10.1234307 	/00±671010	00±07101/100±071707	/00HC7101/
IN OF INTERACTION	1.58 DM	19:03 PM	7.40 PM	Md 16:6	12:41 PM	14.50.41	14:30:57	9.46.48	12:10:21	12:01:11
NOF INTERACTION (WHOLE MIN)		1		10	4	0		4		3
DURATION OF ENTIRE CALL (WHOLE MIN)			12	11	5	3	3	12	88	5
WAS THIS A FULLY AUTOMATED CALL?	0	0)	0	0	0	0	0	0	
YEL INVOLV	0			1		0	_			
DEBUG	0		0	ŀ	9	0	0	0		1000
IVR SUMMARY: (MENU CHOICES)	4		31	4 0 INVALID	LING, OTHER	ADD/CHANGE	REPAIR		NEW	BILLING, OTHEK
		PHONE NO		200	O HEK	AUU/CHANGE	202	NPU NUMBER	7.7	2 HEK
6	THING OF			2	0,0	0, 1, 31 3-022-0	220		c	
DID CALLER INTO AND TALE				- -	0		0	U	0	
IIF 1 INDICATE WHICH ONE APPLIES)										
ABANDON AT START OF IVR (RINGING OR INTRO)										
T PHONE # PROMPT										
ABANDON AT CUSTOMER ID PROMPT										
ABANDON AT OTHER PROMPT	1									
ABANDON AT "ALL OUR AGENTS ARE CURRENTLY"						-				
ABANDON AT FAST BUSY OR SYSTEM BUG										
UNUSUALLY HEAVY CALL VOLUMES										
WHERE IN IVR DID THEY ABANDON							ì			
1 MASTERKEY										
2 NEW SERVICE										
3 ADD/CHANGE										
4 BILLING/OTHER										
5 REPAIR										
(IF CALLER GOT TO AN AGENT, HOW?)										
BY ALITO TRANSER RACED ON DHONE NIIMBER?										
THROUGH INTRODUCTION BY PREVIOUS AGENT?										
IN IVR THROUGH INVALID/TIMEOUT?								ļ		
IN IVR. THROUGH A VALID NONZERO TRANSFER?	0			1	1	0	0	0	-	
BY PRESSING "0"										
OTHER (DIDN'T CATCH IT)										
INDICATE MENU CHOICES MADE IN IVR										
(1. PAY ARRANGEMENTS (MASTER KEY)										
2-1 OKUEK NEW SEKVICE (WELCOME CENTER)										

	18/43	
	SON CHECKING ON CALLS THAT HE DOESN'T RECOGNIZE SISTER DIALING ID NUMBER FOR INTERNET ACCESS AND SHE'LL HAVE TO PAY FOR THE CALLS.	
	NEW SVC ORDER ASSIGNED A NEW # AND T.> WELCOME	0
	LEASING A PHONE COSTS MONEY WORRIED THAT SHE THREWA PHONE OUT AND SOMEONE IS USING IT. SHE'S STILL GETTING A BILL FOK IT. PHONE LEASED IT FRANSFERRED TO XYZ LEASING. WO HAVING REALISED THAT PHONE IS NOT CONNECTED TO NUMBER AND SHE'S NOT GETTING BILLED FOR OTHER CALLS.	0
	CALLER THOUGHT IT WAS A VOICE-RECO SYSTEM AND WHEN PROMPTED FOR PHONE NUMBER, SPOKE IT AND DIDN'T PUTIT IN NEEDS ACK IN HER ROOM, SCHEDULED AN APPT TOMORROW. TOMORROW.	
	RECEIVED VZ CALL NOT A VZ CUST. AND JUST WANTS TO BE TELEMARKETING LIST. BLOCK LIST. BLOCK ADDED TO LINE FOR VZ TELEMRK	00
	CUSTOMER UNHAPPY WAITH XYZ WANTS TO SWITCH TO VERIZON SELECTIVE CALLING.	
	ANGRY LAND- LORD CALLING FOR TENANTS. WARM TRANSFER IN AT START. TENANT IN APT 3 MOVING TO APT 4- WAS UNABLE TO GET THROUGH ON A MONDAY AFTER 45 MINUTES.	
	WANTS TO ADD LONG DISTANCE TO MOTHER'S PHONE AND DROP FREE 30-DAY-TRIAL FEATURES	0
2-2 NEW SERVICE - FOLLOW-UP 3-1 ADD/ADD 3-2 ADD/REMOVE 3-3 DISCONNECT 4-1 BILLING/PHONE DIRECTORY 4-2 BILLING/PHONE DIRECTORY 4-3-1 BILLING/OTHER/PAY/MASTER K 4-3-2 BILLING/OTHER/PAY/MASTER K 4-3-2 BILLING/OTHER/OTHER 5 REPAIR (REPAIR CENTER) 1-2 (SPANISH) (INDICATE FLINCTIONS COMPLETED IN IVR) PAYMENT CENTER LOCATION PAYMENT CENTER HOURS PAYMENT CENTER HOURS PAYMENT MAILING ADDRESS ACCOUNT INFORMATION ESTABLISH ACCE USING PIN		COULD THIS HAVE BEEN DONE IN WKTB I. AGENT PERFORM AUTOMATED FUNCTIONS? IINDICATE WHICH ONES! PAYMENT CENTER LOCATION PAYMENT CENTER HOURS ACCOUNT INFORMATION ESTABLISH ACCT USING PIN PAYMENT ARRANGEMENTS ENTER DETAILS OF LAST PAYMENT COPY OF BILL

Express Mail No. EL029404315US 19/43 IINDICATE WHICH ONESI
REQUEST CALLING CARD
GET VOICE MAIL ACCESS #
GET 3 + 2 DIGIT NUMBER ON BILL
GET ADDRESS FOR WRITING TO REE DIRECT.
GET ADDRESS FOR WRITING TO REFUTE BILL
OTHER: (POTENTIALLY AUTOMATABLE)
III. DID AGENT DO NON-AUTOMATED FUNCTIONS?
III. DID AGENT ON STATUS OF PENDING ORDER
SALES (REMOVE FEATURE, AGENT AKS WHY)
DISCONNECT (AND FORWARD CALLS)
EXPLAIN BILL
EXPLAIN BILL
EXPLAIN BILL DESTINATIONS REMOVE UNAUTHORIZED CALL FROM BILL
REMOVE OTHER CHARGES FROM BILL
CONFIRM TODAY'S REPAIR SCHEDULE
SCHEDULE A VISIT WITH REPAIRMAN
TELL HOW/WHEN TO USE FEATURES THEY ON OTHER
WAS THIS CALL CODED ABOVE?
DID AGENT SEE CALL AS MISDIRECTED?
DID AGENT TRANSFER THE CALL?
IV. IF TRANSFERRED, TO WHAT DESTINATION BOO. 281-8584 MASTER KEY 888-243-9733 TOLL BILLING 800-246-2800 UNLAWFUL CALL SOL CTE 800-585-6127 INSTALLATION HOTLINE 877-525-2375 DSL 800-427-9977 "BUSINESS OFFICE" 7-275-2355 REPAIR 7-287-9933 COLLECTION CENTER 7-870-01000 SERVICE SOLUTIONS TELL HOW TO USE FEATURES WELCOME CENTER BUSINESS ACCOUNTS NEW SERVICE FOLLOWUP DISCONNECT

20/43

	П	T	Τ				Γ	0	10	0	0	0	0	0	0		1/43	1	_	Г	0	0	0	0	0	0	0	0	0	_	0	0	0	6	0	F	\neg
		200				2ND AGENT ASSIGNS RATE PLAN ETC			0																				0							1	
			0			XYZ EXPLAINED THAT LEASING IS ENDED AND THE PHONE ISN'T CONNECTED TO HER BILLING NUMBER.			0		2						0					0													0		
								0	0	0	0	0		0	0		0					0	0	0	0		0	0	0	0		0	0	0	0		
								0	0	0	0	0	0	0	0	6	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
		+					-	0	0	0	0	0	0	0	-	0	0	-	-	_	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0		=
			_		7		_	0	0	0	-	0	0	0	0	0	0		_		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	+	
								0	0	0	1	0	0	0	0	0	0		_		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	-	
	\parallel		-					0	0	0	-	0	0	0	0	0	0		F		0	0	0	ļ	0	0	0	0	0	0	0	0	0	0	0	=	=
-		-	-				<u> </u>	6	0	0	0	0	0	0	0	0	0		6	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIFFERENT CARRIER SUPERVISOR	TRANSFER TO SPANISH AGENT	WAS IKANSFEK WAKM (AGEN STAYEU)?	FURTHER TRANSFERS?	IIF YESI	TOTAL NUMBER OF AGENTS INVOLVED	EXPLAIN:	TOPIC SUMMARY	PAYMENT ARRANGEMENT	NEW SERVICE	ORDER FOLLOW-UP	SALES - ADD	SALES-REMOVE	DISCONNECT	BALANCE/COPY	OTHER	REPAIR	SPANISH	REROUTE		ROUTING SUMMARY	1 OR 4-3-1 PAY ARRANGEMENTS (MASTER KEY)	2-1 ORDER NEW SERVICE (WELCOME CENTER)	2-2 NEW SERVICE - FOLLOW-UP	3-1 ADD/ADD	3-2 ADD/REMOVE	3-3 DISCONNECT	4-1 BILLING/PHONE DIRECTORY	4-2 BILLING/UNAUTHORIZED CALLS	4-3-2 BALANCE/COPY/LOCATIONS/LAST PAYMENT	4-3-3-0THER	5 REPAIR (REPAIR CENTER)	1-2 (SPANISH)	M	INVALID, TIMEOUT, OR "0" ONCE IN IVR	OTHER (UNKNOWN)		

FIG. 68-

FIG. 6C

FIG. 6C-1
FIG. 6C-2
FIG. 6C-3
FIG. 6C-4

CALL NUMBER		A	C	DΙ	F
TRANSCRIBER	1		.1		
3 DATE:	_		7100 071000 01711101100		~
4 PHONE #: 5 SEX OF CALLER: 6 CLOCK TIME (END OF INTERACTION) 7 DURATION OF INTERACTION (WHOLE MIN) 5.123042506 0% 8 DURATION OF ENTIRE CALL (WHOLE MIN) 7.548098434 0% 9 WAS THIS A FULLY AUTOMATED CALL? 14 3% 10 DID CALL INVOLVE AN AGENT? 339 447 11					
SEX OF CALLER:	_				
CLOCK TIME (END OF INTERACTION)			 		
T DURATION OF INTERACTION (WHOLE MIN) 5.123042506 0%					
B DURATION OF ENTIRE CALL (WHOLE MIN) 7.548098434 0% 9 WAS THIS A FULLY AUTOMATED CALL? 14 3% 10 DID CALL INVOLVE AN AGENT? 339 447 11 12 IVR SUMMARY: (MENU CHOICES) 0 0% 13 (USE WORDS: "PHONE #" "RING" "FAST BUSY" 0 0% 14 "HANG UP" "ROTARY" 0 0% 15 16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 18 IF 1, INDICATE WHICH ONE APPLIES] 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 19 ABANDON AT PHONE # PROMPT 4 1% 10 ABANDON AT DUSTOMER ID PROMPT 2 0% 21 ABANDON AT PROMPT 2 2 5% 22 ABANDON AT PROMPT 2 2 5% 23 ABANDON WHILE RINGING FOR AGENT 2 0% 24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 25 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 26 UNUSUALLY HEAVY CALL VOLUMES 17 4% 27 OTHER: 29 6% 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 20 4% 30 2 NEW SERVICE 3 1% 31 3 ADDICHANGE 12 3% 33 5 REPAIR 2 0% 34 BILLING/OTHER 18 4% 35 35 36 IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH IVALID/TIMEOUT? 28 6% 42 BY PRESSING "0" 49 4% 43 OTHER (DIDN'T CATCH IT) 2 0% 43 OTHER (DIDN'T CATCH IT) 2 0% 44 10 THER (DIDN'T CATCH IT) 2 0% 45 OTHER (DIDN'T CATCH IT) 2 0% 46 OTHER (DIDN'T CATCH IT) 2 0% 47 OTHER (DIDN'T CATCH IT) 2 0% 48 OTHER (DIDN'T CATCH IT) 2 0% 49 OTHER (DIDN'T CATCH IT) 2 0% 40 OTHER (DIDN'T CATCH IT) 2 0% 40 OTHER (DIDN'T CATCH IT) 2 0%			5 123042506	0%	
9 WAS THIS A FULLY AUTOMATED CALL?	-				
10 DID CALL INVOLVE AN AGENT? 339 447 11 12 IVR SUMMARY: (MENU CHOICES) 0 0 0% 13 (USE WORDS: "PHONE #" "RING" "FAST BUSY" 0 0% 14 "HANG UP" "ROTARY" 0 0% 15 0 0 0% 16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 18 IF 1, INDICATE WHICH ONE APPLIES] 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 10 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 10 ABANDON AT PHONE # PROMPT 2 0% 2 ABANDON AT PHONE # PROMPT 2 0% 2 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 2 6 UNUSUALLY HEAVY CALL VOLUMES 17 4% 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		WAS THIS A FILLLY ALITOMATED CALL?			
11 12 IVR SUMMARY: (MENU CHOICES)					
12 IVR SUMMARY: (MENU CHOICES)		DID CALL INVOLVE AN AGENT?	339	447	
13		IV/D CLIMANA DV: /MAENILL CHOICEC)	1	0%	
14 "HANG UP" "ROTARY"	143	TVR SUMMARY: (MENU CHOICES)	1		
15		USE WORDS. PHONE # KING FAST BUST			
16 DID CALLER TRY 0 AND FAIL? 30 7% 17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 21% 18 IF 1, INDICATE WHICH ONE APPLIES] 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 20 ABANDON AT PHONE # PROMPT 4 1% 21 ABANDON AT PHONE # PROMPT 2 0% 22 ABANDON AT PROMPT 22 5% 23 ABANDON AT PROMPT 22 5% 23 ABANDON WHILE RINGING FOR AGENT 2 0% 24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 25 ABANDON AT "AST BUSY OR SYSTEM BUG 14 3% 3% 20 UNUSUALLY HEAVY CALL VOLUMES 17 4% 27 OTHER: 29 6% 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 20 4% 30 2 NEW SERVICE 3 1% 31 3 ADD/CHANGE 13 3% 32 4 BILLING/OTHER 12 3% 33 5 REPAIR 2 0% 34 OTHER 18 4% 35 36 IF CALLER GOT TO AN AGENT, HOW? 39 THROUGH INTRODUCTION BY PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0% 44 44 44 44 44 44 44		HANG UP ROTARY	<u> </u>	0%	
17 WAS CALL INCOMPLETE (O FUNCTIONS?) 94 21% 18 [IF 1, INDICATE WHICH ONE APPLIES] 0 0 0% 19 ABANDON AT START OF IVR (RINGING OR INTRO) 0 0% 20 ABANDON AT PHONE # PROMPT 4 1% 1% 21 ABANDON AT PHONE # PROMPT 2 0 0% 22 ABANDON AT PROMPT 22 5% 23 ABANDON AT PROMPT 22 5% 23 ABANDON WHILE RINGING FOR AGENT 2 0% 24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 1% 25 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 25 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 3% 26 UNUSUALLY HEAVY CALL VOLUMES 17 4% 29 6% 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 20 4% 30 2 NEW SERVICE 3 1% 31 3 ADD/CHANGE 31 3 3% 32 4 BILLING/OTHER 12 3% 33 5 REPAIR 2 0% 34 OTHER 35 36 [IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 41 IN IVR, THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 43 OTHER (DIDN'T CATCH IT) 2 0% 44 OTHER (DIDN'T CATCH		DID CALLED TOV CAMP FAIL C	30	70/	
18					
19 ABANDON AT START OF IVR (RINGING OR INTRO)	11/	WAS CALL INCOMPLETE (O FUNCTIONS?)			
20 ABANDON AT PHONE # PROMPT 2 0%	18	IF 1, INDICATE WHICH ONE APPLIES			
21 ABANDON AT CUSTOMER ID PROMPT 2 0%	19	ABANDON AT START OF IVR (RINGING OR INTRO)			
22 ABANDON AT PROMPT 22 5% 23 ABANDON WHILE RINGING FOR AGENT 2 0% 24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 25 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 26 UNUSUALLY HEAVY CALL VOLUMES 17 4% 27 OTHER: 29 6% 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 30 2 NEW SERVICE 3 1% 31 3 ADD/CHANGE 13 3% 32 4 BILLING/OTHER 12 3% 33 5 REPAIR 2 0% 34 OTHER 18 4% 35 0 0% 36 [IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0%			1		
23 ABANDON WHILE RINGING FOR AGENT 24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 25 ABANDON AT FAST BUSY OR SYSTEM BUG 26 UNUSUALLY HEAVY CALL VOLUMES 27 OTHER: 29 6% 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 30 2 NEW SERVICE 31 3 ADD/CHANGE 31 3 ADD/CHANGE 32 4 BILLING/OTHER 32 0% 33 5 REPAIR 34 OTHER 35 36 [IF CALLER GOT TO AN AGENT, HOW?] 37 BY ROTARY PHONE (0 TONES PRESSED)? 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 40 IN IVR THROUGH IVALID/TIMEOUT? 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 42 BY PRESSING "0" 43 OTHER (DIDN'T CATCH IT) 4 1% 4 1% 4 1% 4 1% 4 1% 4 1% 4 1% 4 1%					
24 ABANDON AT "ALL OUR AGENTS ARE CURRENTLY" 4 1% 25 ABANDON AT FAST BUSY OR SYSTEM BUG 14 3% 26 UNUSUALLY HEAVY CALL VOLUMES 17 4% 27 OTHER: 29 6% 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 30 2 NEW SERVICE 3 1 % 31 3 ADD/CHANGE 13 3% 32 4 BILLING/OTHER 12 3% 33 5 REPAIR 2 0% 34 OTHER 18 4% 35 35 35 36 [IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0%					
25 ABANDON AT FAST BUSY OR SYSTEM BUG 26 UNUSUALLY HEAVY CALL VOLUMES 27 OTHER: 29 6% 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 20 4% 30 2 NEW SERVICE 31 3 ADD/CHANGE 31 3 ADD/CHANGE 31 3 ADD/CHANGE 32 4 BILLING/OTHER 32 6 [IF CALLER GOT TO AN AGENT, HOW?] 36 [IF CALLER GOT TO AN AGENT, HOW?] 37 BY ROTARY PHONE (0 TONES PRESSED)? 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 40 IN IVR THROUGH IVALID/TIMEOUT? 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 42 BY PRESSING "0" 43 OTHER (DIDN'T CATCH IT) 44 OTHER (DIDN'T CATCH IT)					
26 UNUSUALLY HEAVY CALL VOLUMES 17 4% 27 OTHER 29 6% 28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 20 4% 30 2 NEW SERVICE 3 1% 3 ADD/CHANGE 13 3% 3 & ADD/CHANGE 12 3% 3 & 5 REPAIR 2 0% 34 OTHER 18 4% 35 36 [IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0% 44 10 OTHER (DIDN'T CATCH IT) 2 0% 44 10 OTHER (DIDN'T CATCH IT) 2 0% 45 OTHER (DIDN'T CATCH IT) 45 OTHER (DIDN'T CATCH IT) 2 0% 45 OTHER (DIDN'T CATCH IT) 45 OTHER (DIDN'T CATCH I					
27 OTHER: 29 6%					-
28 WHERE IN IVR DID THEY ABANDON 29 1 MASTERKEY 30 2 NEW SERVICE 31 3 ADD/CHANGE 31 3 ADD/CHANGE 32 4 BILLING/OTHER 32 5 FREPAIR 35 STATE					
29 1 MASTERKEY 20 4% 30 2 NEW SERVICE 3 1% 31 3 ADD/CHANGE 13 3% 38 3				0%	
30 2 NEW SERVICE 3 1% 3 3 4 3 3 4 5 5 5 5 5 5 5 5 5			1 20	40/	
31 3 ADD/CHANGE 13 3% 32 4 BILLING/OTHER 12 3% 33 5 REPAIR 2 0% 34 OTHER 18 4% 35 36 [IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0% 30 10 10 10 10 10 10 10					
32 4 BILLING/OTHER 12 3% 33 5 REPAIR 2 0% 34 OTHER 18 4% 35 36 [IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 44 43 OTHER (DIDN'T CATCH IT) 2 0% 30 0					
33 5 REPAIR 2 0%					
18 4% 35 36 [IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0% 35 36 37 37 37 37 37 37 37					
35 36 [IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0% 35 36 37 37 37 37 37 37 37					
36 [IF CALLER GOT TO AN AGENT, HOW?] 0 0% 37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0%			18	4%	
37 BY ROTARY PHONE (0 TONES PRESSED)? 62 14% 38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0% 39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0%			<u> </u>	00/	
38 BY AUTO TRANSFER BASED ON PHONE NUMBER? 0 0%	36	[IF CALLER GOT TO AN AGENT, HOW?]			
39 THROUGH INTRODUCTION BY PREVIOUS AGENT? 0 0% 40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0%	37	BY ROTARY PHONE (0 TONES PRESSED)?			
40 IN IVR THROUGH IVALID/TIMEOUT? 28 6% 41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0%	38	BY AUTO TRANSFER BASED ON PHONE NUMBER?			
41 IN IVR, THROUGH A VALID NONZERO TRANSFER? 228 51% 42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0%	39	THROUGH INTRODUCTION BY PREVIOUS AGENT?			
42 BY PRESSING "0" 19 4% 43 OTHER (DIDN'T CATCH IT) 2 0%	40	IN IVR THROUGH IVALID/TIMEOUT?			
43 OTHER (DIDN'T CATCH IT)	41	IN IVR, THROUGH A VALID NONZERO TRANSFER?			
(TO) OTTICITY (DIDITY OF CONT.)	42	BY PRESSING "0"			
	43	OTHER (DIDN'T CATCH IT)			
44 INDICATE MENU CHOICES MADE IN IVR 0 0%	44	INDICATE MENU CHOICES MADE IN IVR			
45 1. PAY ARRANGMENTS (MASTER KEY) 12 3%	45	1. PAY ARRANGMENTS (MASTER KEY)			
46 2-1 ORDER NEW SERVICE (WELCOME CENTER) 28 6%	46	2-1 ORDER NEW SERVICE (WELCOME CENTER)			
47 2-2 NEW SERVICE - FOLLOW -UP 37 8%	47	2-2 NEW SERVICE - FOLLOW -UP			
48 3-1 ADD/ADD 64 14%	48	3 3-1 ADD/ADD			
49 3-2 ADD/REMOVE 12 3%	49	3-2 ADD/REMOVE	12	2 3%	

	23/43			
Ш	Α	C	D	E
	3-3 DISCONNECT	11	2%	
51	4-1 BILLING/PHONE DIRECTORY	1	0%	
52	4-2 BILLING/ UNAUTHOURIZED CALLS	11	2%	
53	4-3-1 BILLING/OTHER/PAY/MASTER K	3	1%	
	4-3-2 BILLING/OTHER/MASTER KEY	11	2%	
	4-3-3 BILLING/OTHER/OTHER	71	16%	
	5 REPAIR (REPAIR CENTER)	14	3%	
	1-2 (SPANISH)	1	0%	
	[INDICATE FUNCTIONS COMPLETED IN IVR]	0	0%	
	PAYMENT CENTER LOCATION	3	1%	
	PAYMENT CENTER HOURS	0	0%	
		2	0%	
	PAYMENT MAILING ADDRESS			
	ACCOUNT INFORMATION	14	3%	
	ESTABLISH ACCT USING PIN	0	0%	
	PAYMENT ARRANGEMENTS	1	0%	
	ENTER DETAILS OF LAST PAYMENT	0	0%	
	COPY OF BILL	0	0%	
67	ORDER PHONE DIRECTORY	0	0%	
68	IDENTIFY UNAUTH CALL	4	1%	
69	GET 800 # TO IDENTIFY UNAUTH CALLS-ETC.	3	1%	
70				
	AGENT CALL SUMMARY: (PROBLEM + SOLUTION)			
71	ACENT CALL COMMANT: (I NOBELIN : COLOTION)			
72				
73				-
74	COULD THIS HAVE BEEN DONE IN MK/TB	24	5%	
75	COOLD THIS TAVE BEEN BOILE IN MICES			
175	I. DID AGENT PERFORM AUTOMATED FUNCTIONS?	25	6%	
_		20	- 0,70	
77	[INDICATE WHICH ONES]	0	0%	
	PAYMENT CENTER LOCATION	0	0%	
	PAYMENT CENTER HOURS	0	0%	
80	PAYMENT MAILING ADDRESS			
81	ACCOUNT INFORMATION	9	2%	
	ESTABLISH ACCT USING PIN	0	0%	
	PAYMENT ARRANGEMENTS	5		
84	ENTER DETAILS OF LAST PAYMENT	0		
85	COPY OF BILL	5		
86	ORDER PHONE DIRECTORY .	1		
87	IDENTIFY ABC UNAUTH CALL	5	1%	
	IDENTIFY XYZ ETC. UNAUTH CALL	0	0%	
89				
an	II. DID AGENT DO POTENTIALLY AUTO FUNCTIONS?	16	4%	
1 0 1	[INDICATE WHICH ONES]			
18	FIND TOLL CALL RANGE	8	0%	
02	REQUEST CALLING CARD			
	GET VOICE MAIL ACCESS #	3	0%	
134	ICET 212 DICIT NUMBER ON DILL	2		
15.	GET 3+2 DIGIT NUMBER ON BILL	0		
196	GET INFO ON RATES-BY MAIL OR SEE DIRECT	1 0		
[97	GET ADDRESS FOR WRITING TO REFUTE BILL		070	I

01-4006; Patrick Peterson et al. 1990 CONTROL OF CONTRO

	24/43			
	Α	C	D	Ε
98	OTHER: (POTENTIALLY AUTOMATABLE)	3	0%	
99				
$\overline{}$	III. DID AGENT DO NON-AUTOMATED FUNCTIONS?	220	49%	**
	[INDICATE WHICH ONES]	220	7570	
		 	404	
	PAYMENT ARRANGEMENTS	5	1%	
	NEW SERVICE- EXPLAINS 2 PARTS NEEDED	21	5%	
104	NEW SERVICE FOLLOW UP (NOT DISCONNECT)	10	2%	
105	CHECK ON STATUS OF PENDING ORDER	6	0%	
106	SALES (PKGS, SERVICES, LINES, JACKS, ETC)	65	15%	***************************************
	SALES (REMOVE FEATURE- AGENT ASKS WHY)	16	4%	
	DISCONNECT (AND FORWARD CALLS)	9	2%	
	EXPLAIN BILL			
		25	6%	
	REMOVE UNAUTHORIZED CALL FROM BILL	4	1%	
	REMOVE OTHER CHARGES FROM BILL	2	0%	
1112	CONFIRM TODAY'S REPAIR SCHEDULE	3	1%	
113	SCHEDULE A VISIT WIHT REPAIRMAN	8	2%	
114	TELL HOW/WHEN TO USE FEATURES THEY OWN	12	3%	· ·
	OTHER	34	8%	
	WAS THIS CALL CODED ABOVE?	675	579	
		81	18%	
	DID AGENT SEE CALL AS MISDIRECTED?			
	DID AGENT TRANSFER THE CALL?	82	18%	
	IV. IF TRANSFERRED, TO WHAT DESTINATION?	0	0%	
	800-281-8584 MASTER KEY	0	0%	
121	800-275-2355 REPAIR	12	3%	
122	800-287-9933 COLLECTION CENTER	10	2%	
123	800-870-0000 SERVICE SOLUTIONS	0	0%	
124	TPV	1	0%	
	888-243-9733 TOLL BILLING	9	2%	
	800-246-2800 UNLAWFUL CALL SOL CTR	0	0%	
	800-585-6127 INSTALLATION HOTLINE	11	2%	
		2	0%	
	877-525-2375 DSL	4	0%	
	800-427-9977 "BUSINESS OFFICE"			
	DMC	1 1	0%	
131	NEW SERVICE FOLLOWUP	1 1	0%	
132	DISCONNECT	1 1	0%	
133	TELL HOW TO USE FEATURES	1	0%	
	WELCOME CENTER	10	2%	
	BUSINESS ACCOUNTS	2	0%	
	ISP CALL/VERIZON ONLINE	2	0%	
	WIRELESS	3	1%	
		2	. 0%	
	DIFFERENT CARRIER	 	. 0%	
	SUPERVISOR	0		
	OTHER	3	1%	
	TRANSER TO SPANISH AGENT	6	1%	
	WAS TRANSER WARM (AGENT STAYED)?	34	8%	
	DURATION WITH SECOND AGENT?	663	0.292715232	
	FURTHER TRANSFERS?	14	3%	
	[IF YES]			
	TOTAL NUMBER OF AGENTS INVOLVED	205	9%	
1140	ATOTAL MODULINOL AGENTS INVOLVED	200	370	

г—	A	ТсТ	D	E
147	^	 	<u> </u>	
	EXPLAIN:	1		
149		1		
	TOPIC SUMMARY	1 1		
	PAYMENT ARRANGEMENT	10		
	NEW SERVICE	21		
	ORDER FOLLOW-UP	16		
	SALES-ADD	65	····	
	SALES-REMOVE	16		
	DISCONNECT	9	· · · · · · · · · · · · · · · · · · ·	
	PHONE DIRECTORY	1		
	IUNAUTHORIZED CALLS	9		
	BALANCE/COPY	14		
160	OTHER	89		
	REPAIR	11		
162	SPANISH	6		
163	REROUTE			
164		267		
165				
166				
167				
168		<u> </u>		
169			-,	
170				
171				
172		1 1		
173		 		_
	ROUTING SUMMARY	 		
175	1 OR 4-3-1 PAY ARRANGMENTS (MASTER KEY)			
	2-1 ORDER NEW SERVICE (WELCOME CENTER)			
177		_		
	3-1 ADD/ADD			
	3-2 ADD/REMOVE			
	3-3 DISCONNECT			
181	4-1 BILLING/PHONE DIRECTORY	_		
182	4-2 BILLING/UNAUTHORIZED CALLS			
	4-3-2 BALANCE/COPY/LOCATIONS/LAST PAYMENT			
184	4-3-3 OTHER	-		
185	5 REPAIR (REPAIR CENTER)			
	1-2 (SPANISH)	-		
18/	ROTARY (INITIAL TIMEOUT)		•	
	INVALID, TIMEOUT, OR "0" ONCE IN IVR			
185	OTHER (UNKNOWN)			

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DATA	CONCLUSION
1. CUSTOMER ROUTES SELF IN IVR TO WRONG AGENT 2. AGENT TRANSFERS CUSTOMER IN RESPONSE TO CUSTOMER NEED.	MISROUTING (2 OR MORE AGENTS INVOLVED INSTEAD OF 1)
1. CUSTOMER ROUTES SELF IN IVR TO WRONG AGENT	MISROUTING (WRONG AGENT INVOLVED)
2. AGENT PERFORMS FUNCTION ANYWAY.	
1. AGENT PERFORMS FUNCTION. 2. FUNCTION IS AVAILABLE IN IVR.	UNDERUTILIZATION OF IVR FUNCTIONALITY.
1. AGENT PERFORMS FUNCTION 2. FUNCTION NOT CURRENTLY AVAILABLE IN IVR. 3. FUNCTION COULD POTENTIALLY BE ADDED	IVR MISSING CRUCIAL FUNCTIONALITY
1. CUSTOMERS OPTING OUT OF IVR AT FEW POPULAR POINTS. 2. IVR DOES NOT PROMPT FOR ID AT THE POINT.	MISSED OPPORTUNITY FOR AUTOMATED CUSTOMER DATA INPUT
1. AGENT STAYS ON THE LINE DURING TRANSER 2. POLICY DOES NOT ADVOCATE A "WARM TRANSFER"	POSSIBLE POLICY VIOLATION (REGARDING WARM TRANSFERS)
1. AGENT STAYS ON THE LINE DURING TRANSFER 2. TIME ON HOLD WITH CUSTOMER SUGGESTS AGENT NOT USING SPECIAL QUEUE FOR TRANSFER	POSSIBLE POLICY VIOLATION (REGARDING USE OF FAST QUEUE FOR AGENT TRANSFERS)
1. # CUSTOMERS REMAINING SILENT IN IVR 2. PERCENTAGE OF ROTARY USERS KNOWN 3. IF 1 SUBSTANTIALLY EXCEEDS 2	CUSTOMERS REFUSING TO PLAY THE GAME
1. # COSTUMERS COOPERATING IN IVR 2. # CUSTOMERS GETTING READOUT BEFORE ABANDONING IF 1 SUBSTANTIALLY EXCEEDS 2	CUSTOMERS RECEIVING NO BENEFIT FROM IVR THOUGH WILLING TO TRY
1. # CALLS 2. # CALLERS COMPLETING AT LEAST 1 FUNCTIONS IN IVR (INCLUDING GETTING READOUT) AND NOT GOING TO AGENT IF 1 SUBSTANTIALLY EXCEEDS 2	LOW "COMPLETE-SELF-SERVE" RATE

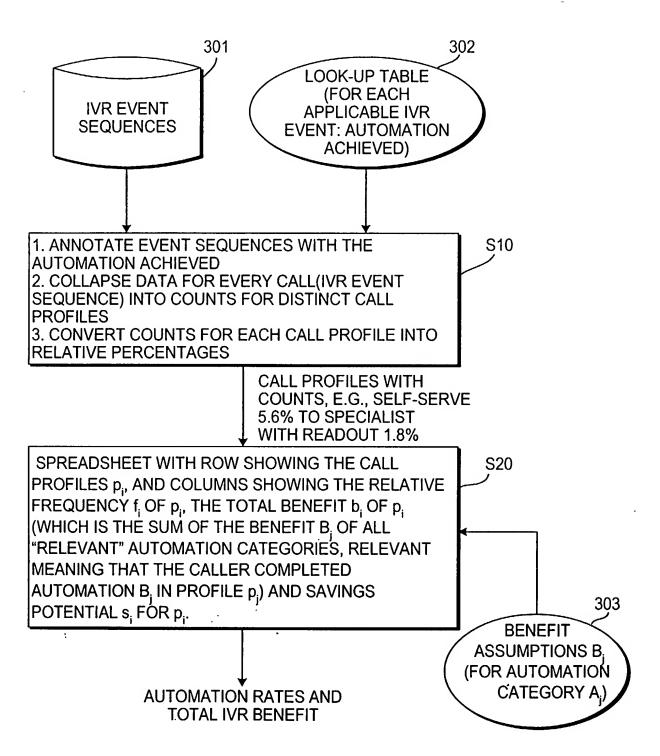


FIG. 7

01-4006; Patrick Peterson et al. 11777556030402 APPARATUS AND METHOD FOR LOGGING EVENTS THAT OCCUR WHEN INTERACTING WITH AN AUTOMATED CALL CENTER SYSTEM Express Mail No. EL029404315US

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CALL PROFILE (P _j)	TRAFFIC (fi)	(f)	AUTOMATION (Bji)	Z (Bji)		BENEFIT (A(BENEFIT (AGENT SECS)
	CALLS	% CALLS	ACCOUNT #	ROUTING	CALLS % CALLS ACCOUNT # ROUTING INFO DELIVERY	ONE CALL	AVERAGE
FULLY-AUTOMATED CALLS	72	2.0%	V	œ	-	105	2.1
TRANSFERS TO SPECIALIST AFTER INFORMATION READOUT	1	%0:0	А	æ	1	105	0.0
TRANSFERS TO FLOOR AFTER INFO READOUT	. 38	1.0%	. A			25	9.0
TRANSFERS TO SPECIALIST W/ ID	849	23.4%		~		40	9.3
TRANSFERS TO FLOOR W/ ID	1008	27.7%	А			15	4.2
TRANSFERS TO FLOOR W/O ID	591	16.3%	·				
MISROUTED TO SPECIALIST W/ ID	389	10.7%	V	αţ		-25	-2.7
MISROUTED TO SPECIALIST W/O ID	ပ	0.2%		ά		-40	-0.1
ABANDONS	681	18.7%					
TOTAL	3636	100.0%	41.5%	14.5%	3.1%		13.4

F/G. 8

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ROUTING ("R")	40
INFORMATION DELIVERY ("T")	40
CALLER IDENTIFICATION ("A")	15
AUTOMATION CATEGORY	ASSUMED BENEFIT [AGENT SECS]

F/G. 9

				SAVINGS	AUTOMATION	
AUTOMATABLE TRANSACTIONS	#OCCURRENCES	TIME SPENT	FREQUENCY	POTENTIAL	CATEGORY	
ACCOUNT_BALANCE	88	27.31	21.5%	5.9		
NEW_PAYMENT_ARRANGEMENT	56	20.94		2.9	-	
CURRENT_PAYMENT_ARRANGEMENT	6	22.08		0.5	_	
ZIP_CODE	2	9.48		0.0	۷	
PAYMENT_LOCATION	. 18	21.3		6.0	_	
BALANCED_PAYMENT_PLAN_AMOUNT ·	9	21.8		0.3	_	
RULES_12_AND_22	+	13.5		0.4	3	
NEW_APPOINTMENT_DATE_TIME	84	14.51		3.0	30/43 ∢	
IS_GAS_APPLIANCE	3	24.75		0.2		
IS_NOT_GAS_APPLIANCE	က	9.22		0.1	A	
NEW_APPOINTMENT_CONFIRMATION_TELEP	82	18.26		3.7	Þ	
NEW_APPOINTMENT_LOCATION	99	15.19		2.5	A	
NEW_APPOINTMENT_DOG	22	11.72		1.6	A	
NEW_APPOINTMENT_MULTI_OR_SINGLE		0	%0.0	0.0	۷	
NEW_APPOINTMENT_ADULT_PRESENT	5	5.29	1.2%	0.1	Ø	
APPOINTMENT_DETAILS_CONFIRMATION	13	36.14	3.2%	7.	 -	
TOTAL NUMBER OF ANNOTATED CALLS	409			23.1		
%HANDLED BY AGENT 72%		WEIGHTE	WEIGHTED OPPORTUNITY: 16.6	Y: 16.6		

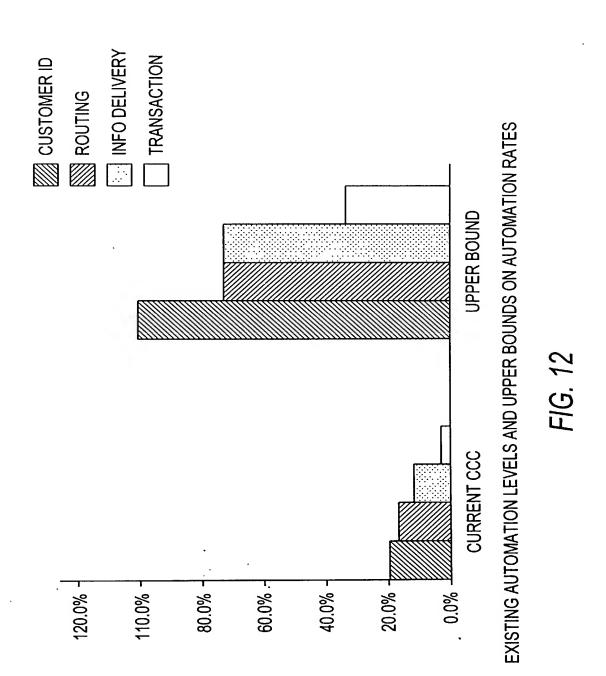
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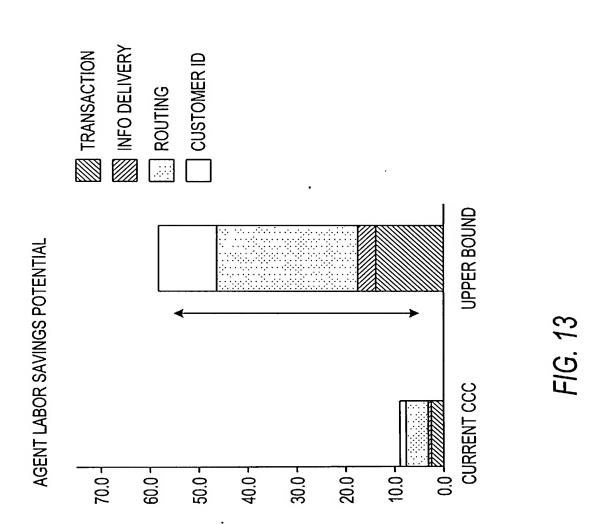
31/43

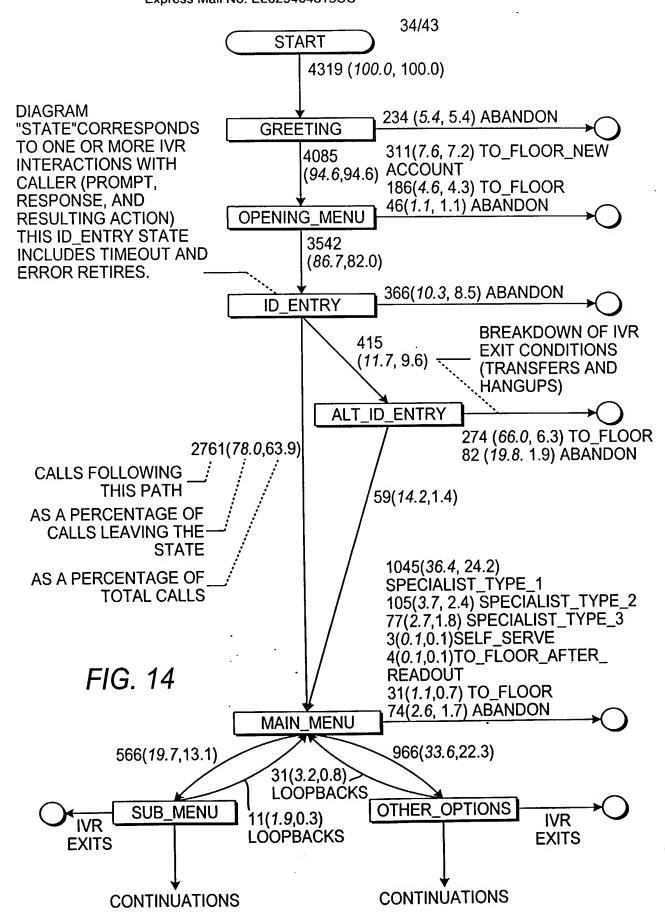
			AUTOMATION	AUTOMATION CATEGORIES	
CUSTOMER CONTACT TYPE	% CALLS	CUSTOMER ID	ROUTING	INFO DELIVERY	TRANSACTION
CUSTOMER SERVICE	8.7%	×			
BALANCE BILLING	36.7%	×	×	>	
PAYMENT ARRANGEMENTS	13.0%	×	×	< >	>
PAYMENT OPTIONS	4.0%	×	×	< >	<
TURN ON	3.0%			<	
RATES	1.3%		×	>-	
STOP SERVICE	3.5%	×	<	<	
SERVICE	11.5%	×			
APPOINTMENT	16.5%	×	×	>	>
EMERGENCY	1.8%	×	<	<	×
TOTAL/UPPER BOUNDS	100.0%	95.7%	71.5%	71.5%	29.5%

HOW TO TRANSFORM UPPER BOUNDS ON AUTOMATION TO AGENT TIME SAVING OPPORTUNITIES: <u>6</u> 4 49 .575 $95.7\% \times 15 = 14.355$ 14.355 5 58.33 BENEFIT ASSUMPTION [AGENT SECS PER CALL] BENEFIT [AGENT SECS] TOTAL OPPORTUNITY

FIG. 11







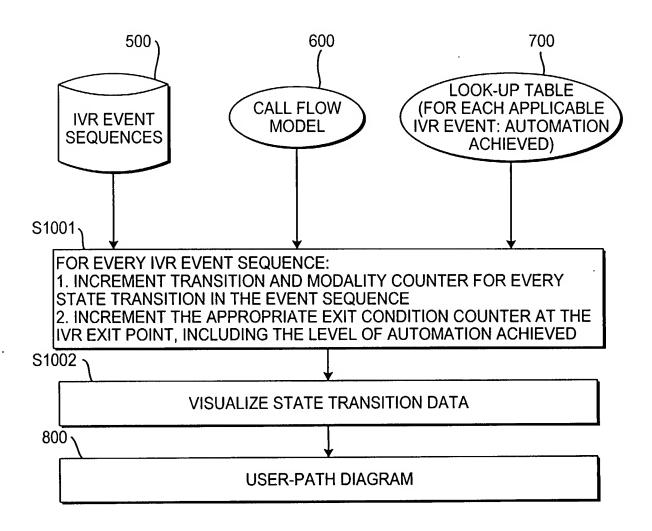
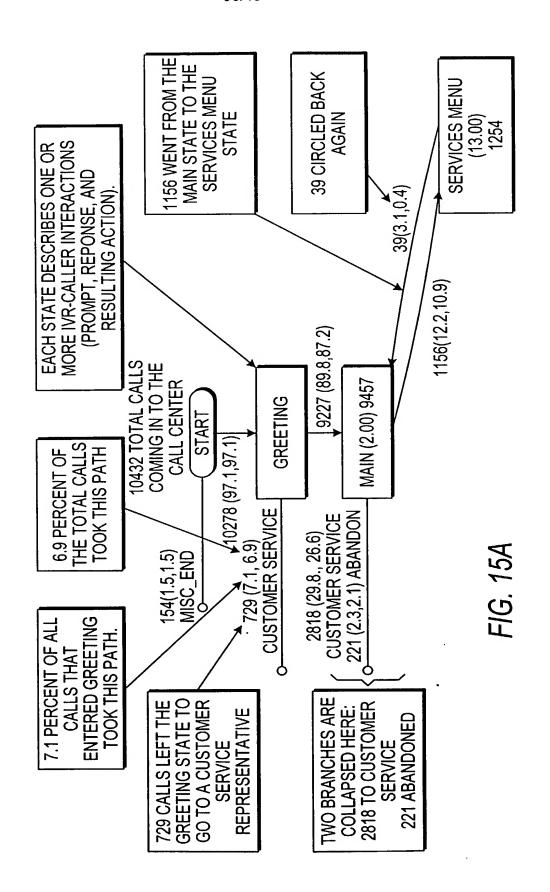


FIG. 15



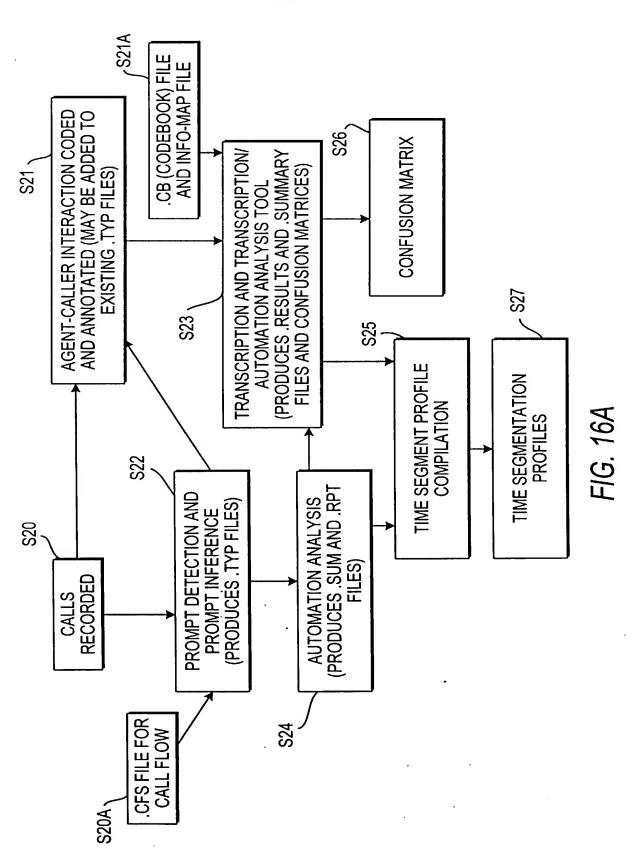
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CALLER'S TT MENU CHOICE SPECIALTY 1 33	2	39ECM 77.3	16 16 A	40/1/88 10/1/108	POUTSBY POUTEDLY 65 51%
o	24	0	0	- 24	100%
0	2	ω	0	-	%08
22	10	26	150	208	72%
55	36	50	166	307	
18%	12%	16%	24%	100%	
%09	%29	16%	%06	70% OVERALL ACCURACY	ALL RACY

TRUE CALL TYPE (FROM AGENT INTERACTION)

DIAGONAL = CORRECTLY ROUTED OTHERS = MISROUTED

<u>-/G. 16</u>



																		39	<u>/43</u>	3														_		_	
H	FIRST AGENT FIRST AGENT FIRST TOPIC	STRT	PAY-CHG	PAY-MAK	PAY-MAK	ECI	RSTR	ОТН	PAY-MAK	PAY-REV	PAY-MAK	CHNG	PAY-MAK	CHNG	PAY-MAK	PAY-MAK	PAY-MAK	ECI	STRT	BAL	PAY-MAK	PAY-MAK	PAY	ОТН	PAY-MAK	RSTR	RSTR	STRT	PAY-MAK	STRT	PAY-MAK	PAY-MAK	PAY-REV	PAY-MAK	BIL	PAY-MAK	
9	T FIRST AGEN																																				
u.	FIRST AGEN																							* 1 1													
	IVR ROUTING DEST	TURNON	PAYMENTX	PAYMENTX	BALANCEBILLING	BALANCEBILLING	BALANCEBILLING	BALANCEBILLING	CUSTOMERSERVICE	CUSTOMERSERVICE	AYMENTX	TURNON	PAYMENTX	TURNON	BALANCEBILLING	AYMENTX	CUSTOMERSERVICE	ALANCEBILLING	TURNON	PAYMENTX	PAYMENTX	BALANCEBILLING	PAYMENTX	CUSTOMERSERVICE	CUSTOMERSERVICE	APPOINTMENT	CUSTOMERSERVICE	TURNON	CUSTOMERSERVICE	RATES	CUSTOMERSERVICE	AYMENTX	AYMENTX	PAYMENTX	BALANCEBILLING	CUSTOMERSERVICE	
0	IVR INFORMATION	RULES 12 AND 22 READOUT	CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR	SERVICE_LOCATION, TELEPHONE, CO	SERVICE_LOCATION, CONFIRM		/8	CALLING_FROM_SERVICE_LOCATION,TELEPHONE B/		0	WA CALLING FROM SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	RULES 12 AND 22 READOUT	CATION, CONFIRM_ADDR			CALLING FROM SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	0	CALLING FROM SERVICE LOCATION, TELEPHONE, CO BALANCEBILLING	RULES 12 AND	SERVICE_LOCATION, TELEPHONE	SERVICE_LOCATION, CONFIRM_ADDR		SERVICE_LOCATION, TELEPHONE, CO		0		O	RULES_12_AND_22_READOUT		RULES_12_AND_22_READOUT R		CALLING_FROM_SERVICE_LOCATION, CONFIRM_ADDR PAYMENTX	CALLING_FROM_SERVICE_LOCATION,CONFIRM_ADDR	ON CALLING_FROM_SERVICE_LOCATION, TELEPHONE P.		0	
၁	IVR ROLITING	P-AGT STARTHOMESERVICE	P-AGT CSRFROMNEWPAY	P-AGT NEWPAYMENTARRAN CALLING_FROM	P-AGT XFERFROMTELEPHON	P-AGT CSRFROMBILLING	P-AGT CSRFROMBILLING	P.AGT DUPSTATFAILURE	P.AGT CSRFROMMAIN	P-AGT CSRFROMMAIN	XFERFROMCONFIR	NT START COMM	P-AGT NEWPAYMENTARRAN	P-AGT_STARTCLEANANDSHC	P-AGT CSRFROMBILLING	P-AGT CSRFROMNEWPAY	P-AGT CSRFROMMAIN	P-AGT CSRFROMDUPLICATE	P-AGT_STARTGASHOME	P-AGT XFERFROMTELEPHON CALLING FROM	P-AGT_NEWPAYMENTARRAN	P-AGT XFERFROMTELEPHON CALLING FROM	P-AGT_XFERFROMCONFIRMA CALLING_FROM	P-AGT CSRFROMMAIN	P-AGT CSRFROMMAIN	P-AGENT-ID-MAKE-APPOINTM	P-AGT CSRFROMMAIN	P-AGT STARTHOMESERVICE	CSRFROMMAIN	P-AGEND-MAIL ELEC R	P-AGT CSRFROMMAIN	P-AGT REFUSEDNEWPAY M	P-AGT INCORRECTNOCURR	P-AGT XFERFROMTELEPHON	P-AGT CSRFROMBILLING	P-AGT CSRFROMMAIN	
α	TIXE EXIT	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPI ETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	INCOMPLETE	
	CII ENIAME	MAM/TRANS/	/D4M/TRANS/	/DAM/TRANS/	MAMTRANS/	MAMTRANS	MAM/TRANS/	MAM/TRANS/	DAM/TRANS/	10 MAMTRANS	MAMTRANS!	MAM/TRANS/	13 MAMTRANS	14 IDAM/TRANS/	/DAM/TRANS/	(PAM/TRANS)	MAMTRANS/	MAMTRANS/	MAM/TRANS/	20 IDAM/TRANS/	21 IDAM/TRANS/	22 INAMITRANS/	23 /D4M/TRANS/	24 /D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	/D4M/TRANS/	MAMTRANS/	/DAM/TRANS/	/DAM/TRANS/				36 /D4M/TRANS/	
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F/G. 17

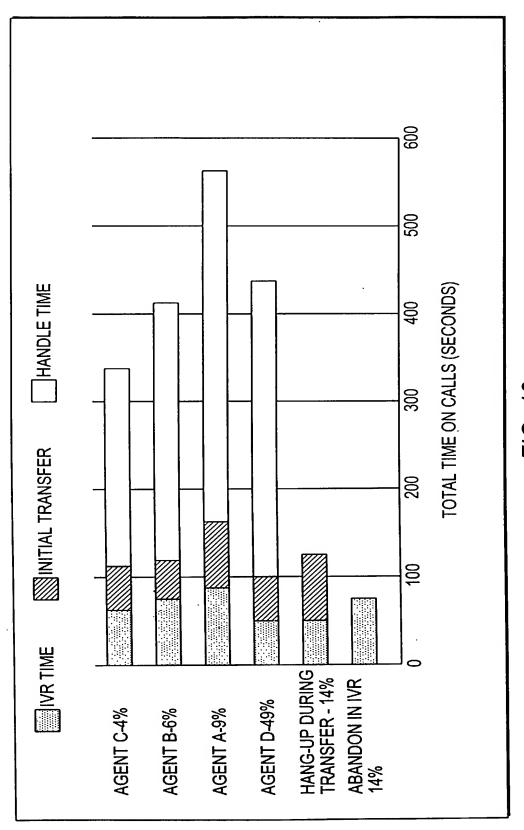


FIG. 18

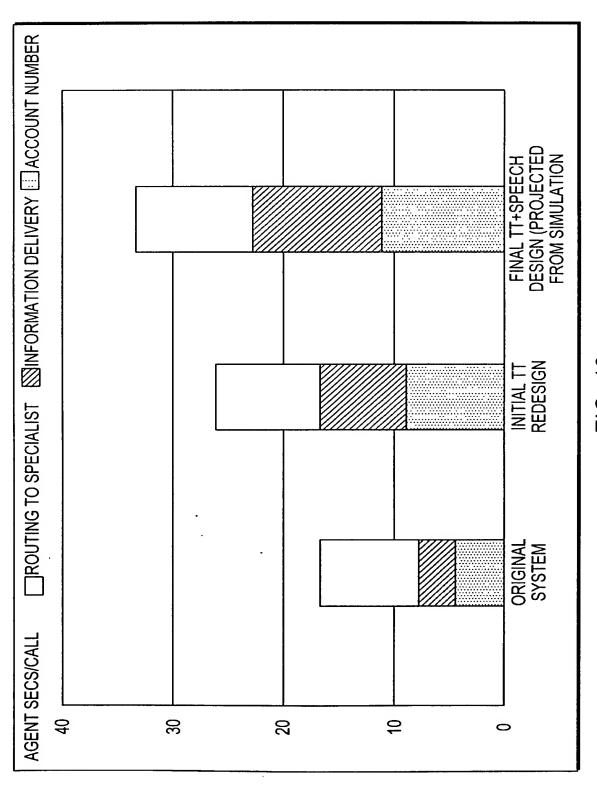


FIG. 19

